

IN THE CLAIMS:

Please amend the claims as follows. No new matter is introduced.

1. (Currently Amended) A method for detecting one or more objects belonging to the same object class comprising the steps of:
 - a) receiving a video sequence from a video camera comprised of a plurality of image frames;
 - b) applying one or more component classifiers to detect components of objects in an image frame in the video sequence, wherein the component classifiers include classifiers for detecting object components of different sizes at multiple scales;
 - c) computing a confidence score based in part on the response from the one or more component detectors;
 - d) repeating steps b) and c) to detect components of objects belonging to the same object class in additional images frames in the video sequence; and
 - e) accumulating confidence scores from the component detectors to determine if an object is detected,
wherein said method is adapted for detecting moving and stationary objects from a moving video camera.
2. (Previously Presented) The method of claim 1 wherein if accumulated confidence scores indicate high confidence of a presence of an object, the method further comprising the step of:
identifying the detected components to be an object of a particular object class.
3. (Original) The method of claim 1 wherein the object class is a vehicle.
4. (Original) The method of claim 1 further comprising the step of:
if an object is detected, outputting a detection signal and object position.
5. (Currently Amended) The method of claim 12 further comprising the steps of: